Rec'd_PCT/PTO 23 JUL 2004

PATENT COOPERATION TREATY **PCT**



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

		Rec'd PCT/PTO -23 JUL 200				
nsla	tion	PCT Article 36 and	EXAMINA	,	PCT Application PCT/JP2003/0000	
	s or agent's file reference	FOR FURTHER ACTION	SeeNotificati	onofTra	nsmittalofinternational Preliminar Form PCT/IPEA/416)	
Internation	P-42253 nal application No. PCT/JP03/00080 nal Patent Classification (IPC) or	International filing date (day/ 08 January 2003 (08	month/year)	Priorit	y date (day/month/year) 5 January 2002 (25.01.02)	
Internatio	nal Patent Classification (176) 6. H02K 5/04, 7/14, F16H 61/34,	F16H 61/32				
Applicar	ıt	NSK LTD.				
	70.16 and Section 607 of These annexes consist of	the Administrative Instructions a total ofshee	ets.	<i>.</i>	nims and/or drawings which have to made before this Authority (see l	
3.	IV Lack of unity V Reasoned state citations and county VI Certain documents of the county of the citations and county of the citation defects of the citation de	ment of opinion with regard to not of invention ement under Article 35(2) with explanations supporting such standards cited	novelty, inventi regard to novel atement		nd industrial applicability utive step or industrial applicability	
	VIII Certain obser	rvations on the international app	nication			
	VIII (rvations on the international app	Date of comp	letion of	this report	
Di	VIII Certain observate of submission of the demand		Date of comp	27 Nov	this report vember 2003 (27.11.2003)	
	ate of submission of the demand	3 (12.08.03)	Date of comp	27 Nov		

International application No.

PCT/JP03/00080

I. Basis of the report				
1. Wit	h regard to the elements of the international application:*			
	the international application as originally filed			
	the description:			
-	pages, as originally filed			
	pages, filed with the demand			
	pages, filed with the letter of			
	the claims:			
_	pages, as originally filed			
	pages, as amended (together with any statement under Article 19			
	pages, filed with the demand			
	pages, filed with the letter of			
	the drawings:			
_	pages, as originally filed			
	pages, as originarly fried			
	pages, filed with the letter of			
	the sequence listing part of the description:			
لــا	•			
	, as originally filed			
	pages, filed with the demand pages, filed with the letter of			
	•			
uie i	h regard to the language, all the elements marked above were available or furnished to this Authority in the language in which international application was filed, unless otherwise indicated under this item.			
The	se elements were available or furnished to this Authority in the following language which is:			
Ļ	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).			
	the language of publication of the international application (under Rule 48.3(b)).			
LJ	the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).			
3. With preli	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international iminary examination was carried out on the basis of the sequence listing:			
	contained in the international application in written form.			
	filed together with the international application in computer readable form.			
	furnished subsequently to this Authority in written form.			
	furnished subsequently to this Authority in computer readable form.			
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.			
<u> </u>	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.			
4.	The amendments have resulted in the cancellation of:			
	the description, pages			
	the claims, Nos.			
	the drawings, sheets/fig			
5. 🗌	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
*** ***	acement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to is report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 0.17).			
	replacement sheet containing such amendments must be referred to under item I and annexed to this report.			

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V.	Reasoned statement under Article 35(2) with regard to	novelty, inventive step or industrial applicability
	citations and explanations supporting such statement	

1. Statement			
Novelty (N)	Claims	3-4	YES
	Claims	1-2	NO NO
Inventive step (IS)	Claims		YES
	Claims	1-4	NO NO
Industrial applicability (IA)	Claims	1-4	YES
	Claims		NO

2. Citations and explanations

Document 1: US 6173624 B1 (Borg Warner Inc.), 16 January 2001

Document 2: US 5499951 A (Borg-Warner Automotive, Inc.),
19 March 1996

Document 3: Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 33604/1981 (Laid-open No. 145861/1982) (Mitsubishi Electric Corp.), 13 September 1982

The invention set forth in claims 1-2 is disclosed in document 1 (column 4, lines 38-49 and fig. 2) or document 2 (column 6, lines 34-61 and fig. 1); hence, it is not novel and does not involve an inventive step.

The invention set forth in claim 3 does not involve an inventive step with respect to document 1 or document 2. It is geometrically obvious to form the device disclosed in document 1 or document 2 in a manner such that the outer face of the case is shaped such that the part where the transmitting member protrudes and the part where the electric motor housing is attached form a continuous slope, as a means to make the radius of the electric motor larger than the distance between the axial

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center of the outputting member positioned at the axial center of the transmitting member and the outer face of the case. Hence, this is a design feature that can be achieved as appropriate by a person skilled in the art.

The invention set forth in claim 4 does not involve an inventive step with respect to document 1 and newly cited document 3, or with respect to document 2 and document 3. It is easy for a person skilled in the art to apply the ball nut having a stopper, disclosed in document 3, to the electric actuator disclosed in document 1 or document 2.

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VII.	Certain	defects in	the	international	application

The following defects in the form or contents of the international application have been noted:

The "long hole 39" and "attachment flange 39a" used in the explanation of figures in the description do not match the notations in the figures. In addition, the keys for the connecting pin are mixed between (30a) and (31a) in figures 1, 2, 25 and 26.